



PART B - FEE(S) TRANSMITTAL

Complete and send

rith applicable fee(s), to: Mail Box ISSUE FEE

Commissi ner for Patents Washington, D.C. 20231 (703)746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CURRESPONDENCE ADDRESS (Note: Legisly mark-up with any corrections or use Block 1)

Fax

7590

01/15/2003

Edward W. Bulchis, Esq. **DORSEY & WHITNEY LLP Suite 3400** 1420 Fifth Avenue Seattle, WA 98101

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the
United States Postal Service with sufficient postage for first class mail in an
envelope addressed to the Box Issue Fee address above, or being facsimile
transmitted to the USPTO, on the date indicated below.

Denise Sheridan	(Dopositor's name)	
Sing Chit	(Signature)	
April 9, 2003	(Date)	

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	b. CONFIRMATION NO.	
10/043,680	01/10/2002	Timothy B. Cowles	500792.03	9219	
TITLE OF INVENTION: R DRAMS	EFRESH CONTROLLER A	IND ADDRESS REMAPPING CIRCUIT AND METHO	D FOR DUAL MODE FULL/REI	DUCED DENSITY	
ADDI NI TUDE	CMALL ENTITY	ISSUE PER PURI ICATION FER	TOTAL PREVS) DUB	DATE DUE	

NO	\$1300	\$300	\$160	10	0.4/1.6/0.003	
		\$300	2100	JU .	04/15/2003	
	ART UNIT	CLASS-SUBCLASS				
HU T	2824	365-222000				
Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.		2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2		DORSEY	& WHITNEY	LLE
				2		
"Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			registered patent attorneys or agents. If no name is listed, no name will be printed.			
	address (or Change of tached. r "Fee Address" Indica	HUT 2824 dress or indication of "Fee Address" (37 address (or Change of Correspondence tached. r "Fee Address" Indication form	dress or indication of "Fee Address" (37 address (or Change of Correspondence tached. The address of the names of up to 3 regist or agents OR, alternatively single firm (having as a lattorney or agent) and the registered patent attorneys or agent attorneys a	dress or indication of "Fee Address" (37 dress or indication of "Fee Address" (37 address (or Change of Correspondence tached. 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name	dress or indication of "Fee Address" (37 Indication of "Fee Addre	dress or indication of "Fee Address" (37 Indication of "Fee Address" (37 Indication of "Fee Address" (37 Indication form agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignce is identified below, no assignce data will appear on the patent. Inclusion of assignce data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

MICRON TECHNOLOGY, INC.

BOISE, IDAHO

individual corporation or other private group entity government Please check the appropriate assignee category or categories (will not be printed on the patent) 4a. The following fee(s) are enclosed: 4b. Payment of Fee(s): A check in the amount of the fee(s) is enclosed. Issue Fee ☐ Payment by credit card. Form PTO-2038 is attached. - any deficiency of Publication Fee The Commissioner is hereby authorized to charge the required fee(s), or credit any overpayment, to Deposit Account Number 50-1200 (enclose an extra copy of this form). Advance Order - # of Copies Commissioner for Patents is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.

(Authorized Signature)	12-11/1	late)
E floor	MKulha	4/1/03
NOTE: The lame her	and Publication Fee (if required) will	not be accepted from anyone
other than the annlica	int: a registered attorney or agent: or the	he assumee or other party in

interest as shown by the records of the United States Patent and Trademark Office.

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Department of Commerce, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, D.C. 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

04/16/2003 SZENDIEZ 00000183 10043680

01 FC:1501 02 FC:1504